

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**

**BUREAU OF AIR**

**DIVISION of AIR POLLUTION CONTROL**

**PERMIT SECTION**

PROJECT SUMMARY for the  
DRAFT TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

J. R. Milling  
1580 Grinnell Road  
Kankakee, Illinois 60901

Permit Engineer/Technical Contact: LeeAnne Kinsella, 217/782-2113

Community Relations/Comments Contact: Brad Frost, 217/782-7027

June, 2005  
Springfield, Illinois

## I. INTRODUCTION

This source has applied for an initial of the Title V - Clean Air Act Permit Program (CAAPP) operating permit (I.D. 091 055 ADD, Permit #03110063,) for its EXISTING operation. The CAAPP is the program established in Illinois for operating permits for significant stationary sources as required by the federal Clean Air Act, as amended in 1990, and 40 CFR Part 70. Unlike state operating permits, the conditions in a CAAPP permit are enforceable by both the Illinois Environmental Protection Agency (Illinois EPA) and the USEPA. This document is for informational purposes only and does not shield the Permittee from enforcement actions or its responsibility to comply with applicable regulations. This document shall not constitute a defense to a violation of the Act or any rule or regulation.

A Title V permit contains conditions listing the applicable state and federal air pollution control regulations that apply to a source. The permit conditions also establish emission limits, appropriate compliance procedures, and specific operational flexibility. The appropriate compliance procedures may include monitoring, record keeping, and reporting to show compliance with these requirements. The Permittee must carry out these procedures on an on-going basis to demonstrate that the source is operating in accordance with the requirements of the permit.

J. R. Milling applied for a Title V-FESOP May of 1999 due to adding an electric generation system with maximum output of 5,740 kW with a potential to emit NO<sub>x</sub> emissions of 93t/yr with a plant wide of 125t/yr. A CAAPP application completeness determination was issued June 18, 1999 for the FESOP application. The facility then applied for a Title V permit and deemed complete December 5, 2003 after a Violation Notice was sent for untimely filing of a Title V application. February, 2005 the facility requested the Agency to go ahead and issue a Title V permit and the Agency withdrew the Title V-FESOP application on March 2, 2005. This Title V permit is being issued based on plant wide emissions of NO<sub>x</sub>: 120.82t/yr; PM: 15.799t/yr; SO<sub>2</sub>: 11.375; and VOM: 1.53t/yr.

## II. SOURCE DESCRIPTION INFORMATION

### a. Location and nature of business

The source is a grain milling facility. In addition, the facility operates an electric generation system that provide electricity during peak power demands, on-site power needs, and various on-site needs.

### b. National Ambient Air Quality Standard status for this area

This source is located in an area that is in attainment of the National Ambient Air Quality Standards for all pollutants.

c. Major source status

The proposed permit is based on:

1. The source requiring a CAAPP permit as a major source of NO<sub>x</sub> emissions.

d. Significant emission units

Emission Unit	Description	Date Constructed	Emission Control Equipment
<b>Receiving, Storage and Cleaning:</b>			
Plate 1-1A	Truck Dump	05/1974	Baghouse
Plate 2-1	Elevator, Elevator Nuisance Vent	05/1974	Baghouse
Plate 2-2	Elevator Central Vacuum	05/1974	Baghouse
Plate 3-1	Load Out Nuisance Vent	05/1974	Baghouse
Plate 3-1	Cleaning House Nuisance Vent	05/1974	Baghouse
Plate 3-2	Cleaning House Dryer	05/1974	Cyclone
Plate 3-3, 4, 5	Cleaning House	05/1974	Cyclone
F1 & F2	Grain Storage Bins Total Storage Capacity: 804,000 Bushels(19 Bins with Total Capacity of 36,000 Bushels each and 12 Bins with Total Capacity of 10,000 Bushels each)	All 1974	Baghouse
<b>Grain Preparation, Drying and Product Handling:</b>			
Plate 4-1	#6 Thru Stock Dryer/Cooler	05/1974	Cyclone
Plate 4-2	2 Hominy Dryers/Coolers	05/1974	Cyclone
Plate 4-3A	#1, #2 Thru Stock Dryers/Coolers	05/1974	Cyclone
Plate 4-3B	#3, #4 Thru Stock Dryers/Coolers	05/1974	Cyclone
Plate 4-3C	2 Germ Dryers/Coolers	05/1974	Cyclone
Plate 4-4A	FSM & Meal Dryers/Coolers	05/1974	Cyclone
Plate 4-4B	2 Hominy Dryers & Coolers	05/1974	Cyclone
Plate 4-4C	Grit & CSM Dryers/Coolers	05/1974	Cyclone
Plate 4-5	Bran Dryer/Cooler	05/1974	Cyclone
Plate 4-6	Central Vac Cleaning System	05/1974	Baghouse
Plate 4-7	Mill Fan Suction	05/1974	Baghouse
Plate 4-8A and B	Hammer Mill Suction	05/1974	Baghouse
Plate 4-9	Mill Nuisance	05/1974	Baghouse
Plate 4-10	Feed Mill Suction Vent	05/1974	2 Cyclones

Emission Unit	Description	Date Constructed	Emission Control Equipment
Plate 4-11	Bin Suction Vent	05/1974	2 Cyclones
Plate 4-12, 4-13, 4-14	Mill Gravity Tables	05/1974	2 Cyclones
Plate 4-15	Bran Aspirator	05/1974	Cyclone
Plate 4-16	#7, #8, #9 Thru Stock & 2 Germ Dryers/Coolers	05/1974	Cyclone
Plate 4-17	FSM and Feed Dryers/Coolers	05/1974	Cyclone
Plate 4-18	Meal and Germ Dryers/Coolers	05/1974	Cyclone
Plate 4-19	#8, #10 Dryer/Cooler	05/1974	Cyclone
Plate 4-20, 4-21, 4-22	Mill Aspirators	05/1974	3 Cyclones
Plate 4-23	Aspirator Suction	05/1974	Cyclone
Plate 4-24	Roller Mill and Conveyor	05/1974	Baghouse
Plate PS-1	Bin Vent Collector (Product Storage Silos)	05/1974	Baghouse
Plate PS-2	Bin Vent Collector (Product Storage Silos)	05/1974	Baghouse
Plate PS-3	Product Mixer Vent Collector	05/1974	Baghouse
PD-01.1	Regrind Building	05/1974	Baghouse
PD-02.1	Mix Building	05/1974	Baghouse
PD-03.1	Pellet Building	05/1974	Baghouse
Plate PS-4	Truck Receiver Collector	05/1974	Baghouse
Plate 3-6	Truck and Rail Bulk Load-out	05/1974	Baghouse
<b>Natural Gas Boilers with #2 Fuel Oil as Backup:</b>			
B-1	Natural Gas Erie Boiler Rated: 24.85 mmBtu/hr with #2 Fuel Oil as Back-Up	05/1974	None
B-2	Natural Gas Johnston Boiler Rated: 21.8 mmBtu/hr with #2 Fuel Oil as Back-Up	09/1991	None
<b>Natural Gas Reciprocating Engines:</b>			
G-1	Seven (7) Natural Gas Reciprocating Engines Rated: 2.9 mmBtu/Hr (each) Total Output: 820 kW (each)	1996	None

### III. EMISSIONS INFORMATION

The proposed permit limits the source wide maximum annual emissions from significant emission units at the source. Insignificant activities at this source are not accounted for in the source-wide limit. Further unit specific emission unit limitations are found within Sections 5 and 7 of the proposed permit.

For purposes of fees, the source is allowed the following emissions:

Pollutant	Tons/Year
Volatile Organic Material (VOM)	1.53
Sulfur Dioxide (SO <sub>2</sub> )	11.375
Particulate Matter (PM)	15.7399
Nitrogen Oxides (NO <sub>x</sub> )	120.82
Hazardous Air pollutant (HAP), not included in VOM or PM	0.0
TOTAL	149.4649

This proposed permit contains terms and conditions that address the applicability, and, if determined applicable, substantive requirements of Title I of the Clean Air Act (CAA) and regulations promulgated thereunder, including 40 CFR 52.21, Prevention of Significant Deterioration (PSD) and 35 IAC Part 203, Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within the proposed permit by T1, T1R, or T1N. Any conditions established in a construction permit [T1] pursuant to Title I and not revised or deleted in this proposed permit, remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them. Where the source has requested that the Illinois EPA establish new [T1N] or revise [T1R] such conditions in a Title I permit, those conditions are consistent with the information provided in the Title V application and will remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them.

This proposed permit does establish new [T1N] requirements.

#### IV. EMISSIONS CONTROL PROGRAMS INFORMATION

As of the date of issuance of this permit, there are no such emissions control programs applicable to this source.

#### V. COMPLIANCE ASSURANCE MONITORING (CAM) PLAN INFORMATION

The Compliance Assurance Monitoring (CAM) plan is a program for pollutant-specific emission units which use an add-on control device to achieve compliance with an emission limitation or standard, has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than major source threshold levels, and is not specifically exempt by 40 CFR Part 64. There are no specific emission

units that require a CAM plan as identified in the Monitoring Requirements of Subsection 8 for each Section 7, Unit Specific Conditions for Specific Emission Units.

VI. OTHER PERTINENT INFORMATION

a. Episode Action Plan (EAP)

An episode action plan (EAP) is a program for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The Permittee is required to immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared. The Permittee is required to maintain and have this plan on file with the Illinois EPA.

VII. COMPLIANCE INFORMATION

The source has certified compliance with all applicable rules and regulations; therefore, a compliance schedule is not required for this source.

VIII. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that this source's permit application meets the standards for issuance of a Title V permit. The Illinois EPA is therefore proposing to issue a Title V permit, subject to the conditions proposed in the draft permit.

Comments are requested by the Illinois EPA for the proposed permit. If substantial public interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 166.

LAK:03110063:psj